ABSTRACT OF THE DISCLOSURE

A surgical operation assistance system picks up an image of a surgical filed with using an image pick-up device. And, an image produce unit produces a stereographic image of the surgical filed, the image of which is picked up. Reference points of a surgical operation route are inputted upon basis of a kind of the surgical operation and the stereographic image. A surgical operation route calculate unit calculates out a smooth surgical operation route upon basis of the kind of the surgical operation and the reference points inputted, to be displayed on an image displaying apparatus.